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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/596,319	06/09/2006	Rene Martinus Maria Derkx	NL031456	5326
24737 7590 09/30/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001			EXAMINER	
			JAMAL, ALEXANDER	
BRIARCLIFF	CLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			09/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/596,319	DERKX ET AL.		
Office Action Summary	Examiner	Art Unit		
	ALEXANDER JAMAL	2614		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>09 Jul</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) is/are pending in the applicatio 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-9</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ton is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Motice of References Cited (PTO-892)	4)	(PTO-413)		
2) Notice of Preferences Cited (F10-032) 2) Notice of Draftsperson's Patent Drawing Review (PT0-948) 3) Information Disclosure Statement(s) (PT0/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1- rejected under 35 U.S.C. 102(b) as being anticipated by Duttweiler (5631899).

As per **claim 1**, Duttweiler discloses two adaptive echo cancellers in series (Figs. 1-3).

As per **claim 2**, the cancellers function to cancel a first part then residual echo.

As per **claim 3**, the system inherently comprises delay elements for the purpose of synchronizing the bidirectional communication streams.

As per **claims 4**, the filters operate at different adaptation rates and as such one would cancel a direct echo while the other would train on and cancel a diffuse

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echo. The step size (adaptation rate) is adaptive (inherently requires a threshold to trigger an adaptation).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 5- rejected under 35 U.S.C. 103(a) as being unpatentable over Duttweiler
 (5631899) as applied to claim 1 above, and further in view of Stephens et al. (US 20020090079
 A1).

As per **claims 5,6**, Duttweiler discloses two adaptive filers in series but does not specify the step size adaptively changing

Stephens teaches to vary the step size based on the (para. 007) based on the echo error (which is based on the power spectrum of the far end signal which creates the echo (and is used to create the echo estimate). It would have been obvious to one of ordinary skill in the art at the time of this application to vary the step sizes incrementally in order to optimize the step sizes for the system.

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As per **claim 7**, there is a direct (linear relationship) between the power spectrum (which is based linearly off the amplitude) and the echo error, to which Stephens' system has a linear relationship to.

As per **claim 8**, the coefficients provide multiplication functions for the far-end signal to create the echo estimates.

As per **claim 9**, it would have been obvious that the audio system of Duttweiler could be a phone system (mobile or otherwise).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Jamal whose telephone number is 571-272-7498. The examiner can normally be reached on M-F 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis A Kuntz can be reached on 571-272-7499. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and 571-273-8300 for After Final communications.

/Alexander Jamal/

Primary Examiner, Art Unit 2614

Examiner Alexander Jamal

October 2, 2008